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Serial Number: 10/792,207

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Inventor Information for 10/792207

| Inventor Name | City | State/Country |
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or Patent#

 [Search](#)

PCT /

/ [Search](#)

or PG PUBS #

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Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)

| | | | | | | |
|-------------------|----------|----------|---|------------|------------------------------------|--------------------------------|
| US 20050284412 A1 | US-PGPUB | 20051229 | Domestic animal telephone | 119/719 | | Kroll, Mark W. |
| US 20050261743 A1 | US-PGPUB | 20051124 | System and method for automated fluid monitoring | 607/8 | | Kroll, Mark W. |
| US 20050229425 A1 | US-PGPUB | 20051020 | Ambulatory hairdryer | 34/283 | 34/99 | Kroll, Mollie B. et al. |
| US 20050197676 A1 | US-PGPUB | 20050908 | Electrical cardiac output forcer | 607/17 | | Kroll, Kai et al. |
| US 20050197673 A1 | US-PGPUB | 20050908 | Left heart implantable cardiac stimulation system with clot prevention and method | 607/9 | | Kroll, Mark W. |
| US 20050168681 A1 | US-PGPUB | 20050804 | Tan-thru glasses | 351/44 | | Kroll, Mark W. et al. |
| US 20050085862 A1 | US-PGPUB | 20050421 | Implantable cardiac stimulation device including an output circuit that provides arbitrarily shaped defibrillation waveforms | 607/5 | | Moulder, J. Christopher et al. |
| US 20050072429 A1 | US-PGPUB | 20050407 | Breathing gas therapeutic method and apparatus | 128/205.27 | 128/202.12; 128/204.18; 128/205.25 | Kroll, Mark W. |
| US 20050055900 A1 | US-PGPUB | 20050317 | Toddler stair safety system | 52/182 | | Kroll, Lori C. et al. |
| US 20050004507 A1 | US-PGPUB | 20050106 | Method and device for treating cancer with electrical therapy in conjunction with chemotherapeutic agents and radiation therapy | 604/20 | | Schroeppel, Edward A. et al. |
| US 20040254618 A1 | US-PGPUB | 20041216 | Implantable device and method for the electrical treatment of cancer | 607/74 | | Schroeppel, Edward A. et al. |
| US 20040103553 A1 | US-PGPUB | 20040603 | Ambulatory hairdryer | 34/96 | 34/97 | Kroll, Mollie Beth et al. |
| US 20040088012 A1 | US-PGPUB | 20040506 | Implantable stimulation device with isolating system for minimizing magnetic induction | 607/9 | | Kroll, Mark W. et al. |
| US 20040078065 A1 | US-PGPUB | 20040422 | System and method for monitoring blood glucose levels using an | 607/60 | | Kroll, Mark W. |

| | | | | | | |
|-------------------|----------|----------|---|------------|---|------------------------------|
| | | | implantable medical device | | | |
| US 20040077962 A1 | US-PGPUB | 20040422 | System and method for monitoring blood glucose levels using an implantable medical device | 600/513 | | Kroll, Mark W. |
| US 20040073261 A1 | US-PGPUB | 20040415 | Methods and systems for treating ventricular fibrillation | 607/5 | | Kroll, Mark W. |
| US 20040044373 A1 | US-PGPUB | 20040304 | Method and apparatus for electrically forcing cardiac output in an arrhythmia patient | 607/14 | | Kroll, Kai et al. |
| US 20040039382 A1 | US-PGPUB | 20040226 | Even temperature linear lesion ablation catheter | 606/41 | | Kroll, Mark W. et al. |
| US 20040018845 A1 | US-PGPUB | 20040129 | Nuisance cell phone locator | 455/456.1 | 455/404.2; 455/422.1; 455/427; 455/456.2 | Kroll, Mark W. |
| US 20040010290 A1 | US-PGPUB | 20040115 | Method and device for treating cancer with electrical therapy in conjunction with chemotherapeutic agents and radiation therapy | 607/3 | | Schroeppel, Edward A. et al. |
| US 20040003815 A1 | US-PGPUB | 20040108 | Altitude adjustment method and apparatus | 128/206.21 | 128/205.11 | Kroll, Mark W. |
| US 20030160588 A1 | US-PGPUB | 20030828 | Implantable cardioverter defibrillator with switchable power source and patient warning system cardiac device | 320/103 | | Kroll, Mark W. |
| US 20030149453 A1 | US-PGPUB | 20030807 | System and method for evaluating risk of mortality due to congestive heart failure using physiologic sensors | 607/17 | | Kroll, Mark W. et al. |
| US 20030149367 A1 | US-PGPUB | 20030807 | System and method for evaluating risk of mortality due to congestive heart failure using physiologic sensors | 600/483 | | Kroll, Mark W. et al. |

| | | | | | | |
|-------------------|----------|----------|--|-----------|---------------------------------------|------------------------------|
| US 20030083719 A1 | US-PGPUB | 20030501 | Implantable cardiac therapy device with dual chamber can to isolate high-frequency circuitry | 607/60 | | Shankar, Balakrishnan et al. |
| US 20030069624 A1 | US-PGPUB | 20030410 | XY selectable lead assembly | 607/122 | | Kroll, Mark W. |
| US 20030050088 A1 | US-PGPUB | 20030313 | Self defense cell phone with projectiles | 455/550.1 | | Kroll, Chase R. et al. |
| US 20030045910 A1 | US-PGPUB | 20030306 | Pacing mode to reduce effects of orthostatic hypotension and syncope | 607/23 | | Sorensen, Chris et al. |
| US 20030040778 A1 | US-PGPUB | 20030227 | Orientation of patient's position sensor using external field | 607/17 | | Kroll, Mark W. et al. |
| US 20030040776 A1 | US-PGPUB | 20030227 | Detection of patient's position and activity status using 3D accelerometer-based position sensor | 607/9 | | Kroll, Mark W. et al. |
| US 20030003950 A1 | US-PGPUB | 20030102 | Self defense cellular telephone | 455/557 | | Kroll, Chase R. et al. |
| US 20020157165 A1 | US-PGPUB | 20021031 | Light selective sports garments | 2/69 | 2/102; 2/227; 2/410; 2/DIG.3 | Kroll, Mark W. et al. |
| US 20020156506 A1 | US-PGPUB | 20021024 | Disposable defibrillator | 607/5 | | Kroll, Mark W. et al. |
| US 20020153416 A1 | US-PGPUB | 20021024 | Magnetic card swipe signature security system | 235/380 | | Kroll, Mark W. |
| US 20020120318 A1 | US-PGPUB | 20020829 | His bundle sensing device and associated method | 607/149 | | Kroll, Mark W. et al. |
| US 20020106059 A1 | US-PGPUB | 20020808 | Public service answering point with automatic triage capability | 379/45 | | Kroll, Mark W. et al. |
| US 20020077676 A1 | US-PGPUB | 20020620 | Implantable device and method for the electrical treatment of cancer | 607/75 | 607/2 | Schroeppel, Edward A. et al. |
| US 20020033023 A1 | US-PGPUB | 20020321 | Nitrogen-based refrigerator crisper | 62/78 | | Kroll, Mark W. et al. |
| US 20020002389 A1 | US-PGPUB | 20020103 | Cardiac stimulation devices and methods for measuring impedances | 607/8 | | Bradley, Kerry et al. |

| | | | | | | |
|-------------------|----------|----------|--|---------|---|----------------------------|
| | | | associated with the left side of the heart | | | |
| US 20010049543 A1 | US-PGPUB | 20011206 | Method and apparatus for biventricular stimulation and capture monitoring | 607/28 | | Kroll, Mark W. |
| US 20010044645 A1 | US-PGPUB | 20011122 | Temporary atrial cardioversion catheter | 607/122 | 604/532 | Hofstad, Michael L. et al. |
| US 20010031992 A1 | US-PGPUB | 20011018 | System and method of generating a high efficiency biphasic defibrillation waveform for use in an implantable cardioverter/defibrillator (ICD) | 607/5 | | Fishler, Matthew G. et al. |
| US 20010013766 A1 | US-PGPUB | 20010816 | Thermal battery emergency system | 320/104 | | Kroll, Mark W. et al. |
| US 20010007325 A1 | US-PGPUB | 20010712 | Wind and insect resistant picnic system | 220/574 | 206/499; 206/813; 229/400; 229/407; 53/475; 53/540 | Kroll, Mark W. et al. |
| US 7029443 B2 | USPAT | 20060418 | System and method for monitoring blood glucose levels using an implantable medical device | 600/365 | 600/513; 607/22 | Kroll; Mark W. |
| US 7024243 B1 | USPAT | 20060404 | System and methods for preventing, detecting, and terminating pacemaker mediated tachycardia in biventricular implantable cardiac stimulation device | 607/14 | 600/518 | Bornzin; Gene A. et al. |
| US 7020521 B1 | USPAT | 20060328 | Methods and apparatus for detecting and/or monitoring heart failure | 607/14 | | Brewer; James E. et al. |
| US 7016720 B2 | USPAT | 20060321 | System and method for monitoring blood glucose levels using an implantable medical device | 600/513 | 600/365 | Kroll; Mark W. |

| | | | | | | |
|---------------|-------|----------|--|------------|----------------|----------------------------|
| US 7010358 B1 | USPAT | 20060307 | Single lead system for high voltage CHF device | 607/122 | | Kroll; Mark W. et al. |
| US 7010346 B1 | USPAT | 20060307 | Implantable medical device having atrial tachyarrhythmia prevention therapy | 607/14 | | Schloss; Harold C. et al. |
| US 7006867 B1 | USPAT | 20060228 | Methods and apparatus for overdrive pacing multiple atrial sites using an implantable cardiac stimulation device | 607/14 | 607/17 | Kroll; Mark W. |
| US 7006347 B1 | USPAT | 20060228 | Low deformation electrolytic capacitor | 361/503 | 361/508; 607/5 | Kroll; Mark W. et al. |
| US 7003348 B1 | USPAT | 20060221 | Monitoring cardiac geometry for diagnostics and therapy | 607/17 | 600/508 | Brewer; James E. et al. |
| US 6997180 B2 | USPAT | 20060214 | Breathing gas therapeutic method and apparatus | 128/202.12 | 128/205.11 | Kroll; Mark W. |
| US 6993379 B1 | USPAT | 20060131 | System and method for emulating a surface EKG using an implantable cardiac stimulation device | 600/510 | 600/509 | Kroll; Mark W. et al. |
| US 6987999 B1 | USPAT | 20060117 | Implantable defibrillator with alternating counter electrode | 607/5 | | Kroll; Mark W. |
| US 6980850 B1 | USPAT | 20051227 | System and method for emulating a surface EKG using an implantable cardiac stimulation device | 600/509 | | Kroll; Mark W. et al. |
| US 6964116 B2 | USPAT | 20051115 | Ambulatory hairdryer | 34/96 | 2/174; 34/99 | Kroll; Mollie B. et al. |
| US 6961615 B2 | USPAT | 20051101 | System and method for evaluating risk of mortality due to congestive heart failure using physiologic sensors | 607/18 | | Kroll; Mark W. et al. |
| US 6954669 B1 | USPAT | 20051011 | System and method of generating an optimal three-step defibrillation | 607/5 | 607/74 | Fishler; Matthew G. et al. |

| | | | | | | |
|---------------|-------|----------|---|------------|---|---------------------------|
| | | | waveform for use in an implantable cardioverter/defibrillator (ICD) | | | |
| US 6937896 B1 | USPAT | 20050830 | Sympathetic nerve stimulator and/or pacemaker | 607/9 | | Kroll; Mark W. |
| US 6931278 B1 | USPAT | 20050816 | Implantable cardioverter defibrillator having fast action operation | 607/5 | | Kroll; Mark W. et al. |
| US 6928321 B1 | USPAT | 20050809 | Hypnosis augmented ICD | 607/5 | | Kroll; Mark W. |
| US 6904314 B1 | USPAT | 20050607 | Automatic defibrillation threshold tracking | 607/7 | | Brewer; James E. et al. |
| US 6865420 B1 | USPAT | 20050308 | Cardiac stimulation device for optimizing cardiac output with myocardial ischemia protection | 607/25 | | Kroll; Mark W. |
| US 6862475 B1 | USPAT | 20050301 | Pediatric rate varying implantable cardiac device | 607/9 | | Kroll; Mark W. |
| US 6854844 B2 | USPAT | 20050215 | Tan-thru sunglasses | 351/44 | 351/111 | Kroll; Mark W. et al. |
| US 6853859 B1 | USPAT | 20050208 | Electrical cardiac output forcer | 607/5 | 607/17; 607/6 | Kroll; Kai et al. |
| US 6826427 B1 | USPAT | 20041130 | Methods and devices for inhibiting battery voltage delays in an implantable cardiac device | 607/29 | 607/5 | Fayram; Timothy A. et al. |
| US 6820619 B2 | USPAT | 20041123 | Altitude adjustment method and apparatus | 128/205.11 | 128/204.22; 128/205.27; 128/205.28 | Kroll; Mark W. |
| US 6817520 B2 | USPAT | 20041116 | Magnetic card swipe signature security system | 235/380 | 235/379; 235/383; 235/449; 235/493 | Kroll; Mark W. |
| US 6813514 B1 | USPAT | 20041102 | System and method for emulating a surface EKG using an implantable cardiac stimulation device | 600/509 | | Kroll; Mark W. et al. |
| US 6804557 B1 | USPAT | 20041012 | Battery monitoring system for an | 607/29 | | Kroll; Mark W. |

| | | | | | | |
|---------------|-------|----------|---|---------|--|-----------------------|
| | | | implantable medical device | | | |
| US 6780181 B2 | USPAT | 20040824 | Even temperature linear lesion ablation catheter | 606/41 | 607/101; 607/102 | Kroll; Mark W. et al. |
| US 6775571 B1 | USPAT | 20040810 | Dynamic control of overdrive pacing based on degree of randomness within heart rate | 607/9 | | Kroll; Mark W. |
| US 6772007 B1 | USPAT | 20040803 | System and method of generating a low-pain multi-step defibrillation waveform for use in an implantable cardioverter/defibrillator (ICD) | 607/7 | 607/5; 607/63 | Kroll; Mark W. |
| US 6766194 B1 | USPAT | 20040720 | Dynamic control of overdrive pacing based on degree of randomness within heart rate | 607/9 | 607/4 | Kroll; Mark W. |
| US 6763266 B1 | USPAT | 20040713 | System and method of generating a low-pain multi-step defibrillation waveform for use in an implantable cardioverter/defibrillator (ICD) | 607/7 | 607/5; 607/63; 607/68; 607/74 | Kroll; Mark W. |
| US 6760625 B1 | USPAT | 20040706 | Battery monitoring system for an implantable medical device | 607/29 | | Kroll; Mark W. |
| US 6751503 B1 | USPAT | 20040615 | Methods and systems for treating patients with congestive heart failure (CHF) | 607/18 | | Kroll; Mark W. |
| US 6748261 B1 | USPAT | 20040608 | Implantable cardiac stimulation device for and method of monitoring progression or regression of heart disease by monitoring interchamber conduction delays | 600/510 | 600/509; 607/9 | Kroll; Mark W. et al. |
| US 6745073 B1 | USPAT | 20040601 | System and method of generating a low-pain | 607/7 | 607/5 | Kroll; Mark W. |

| | | | | | | |
|---------------|-------|----------|--|---------|---|------------------------------|
| | | | multi-step defibrillation waveform for use in an implantable cardioverter/defibrillator (ICD) | | | |
| US 6744152 B2 | USPAT | 20040601 | Implantable cardioverter defibrillator with switchable power source and patient warning system cardiac device | 307/66 | 320/103; 607/5 | Kroll; Mark W. |
| US 6738663 B2 | USPAT | 20040518 | Implantable device and method for the electrical treatment of cancer | 607/2 | | Schroeppel; Edward A. et al. |
| US 6714818 B1 | USPAT | 20040330 | System and method of generating an optimal three-step defibrillation waveform for use in an implantable cardioverter/defibrillator (ICD) | 607/5 | 607/72 | Fishler; Matthew G. et al. |
| US 6694188 B1 | USPAT | 20040217 | Dynamic control of overdrive pacing based on degree of randomness within heart rate | 607/14 | | Kroll; Mark W. |
| US 6687542 B2 | USPAT | 20040203 | XY selectable lead assembly | 607/9 | | Kroll; Mark W. |
| US 6662047 B2 | USPAT | 20031209 | Pacing mode to reduce effects of orthostatic hypotension and syncope | 607/18 | 607/23 | Sorensen; Chris et al. |
| US 6658292 B2 | USPAT | 20031202 | Detection of patient's position and activity status using 3D accelerometer-based position sensor | 607/19 | | Kroll; Mark W. et al. |
| US 6645153 B2 | USPAT | 20031111 | System and method for evaluating risk of mortality due to congestive heart failure using physiologic sensors | 600/481 | 600/300; 600/301; 600/508; 600/513; 600/529 | Kroll; Mark W. et al. |
| US 6628986 B1 | USPAT | 20030930 | System for predicting defibrillation threshold based on patient data | 607/8 | | Mouchawar; Gabriel A. et al. |
| US 6625493 B2 | USPAT | 20030923 | Orientation of patient's | 607/17 | | Kroll; Mark |

| | | | | | | |
|---------------|-------|----------|--|------------|---|-----------------------|
| | | | position sensor using external field | | | W. et al. |
| US 6609027 B2 | USPAT | 20030819 | His Bundle sensing device and associated method | 607/9 | | Kroll; Mark W. et al. |
| US 6590534 B1 | USPAT | 20030708 | Electronic car locator | 342/442 | 342/419; 342/457 | Kroll; Mark W. et al. |
| US 6580915 B1 | USPAT | 20030617 | Aircraft internal EMI detection and location | 455/456.3 | 455/279.1; 455/431; 455/67.11; 455/67.13 | Kroll; Mark W. |
| US 6580908 B1 | USPAT | 20030617 | Generic number cellular telephone | 455/435.1 | 455/404.1; 455/409; 455/551 | Kroll; Mark W. et al. |
| US 6578499 B2 | USPAT | 20030617 | Wind and insect resistant picnic system | 108/90 | | Kroll; Mark W. et al. |
| US 6567697 B1 | USPAT | 20030520 | External defibrillator with electrical CPR assist | 607/5 | | Kroll; Kai et al. |
| US 6561185 B1 | USPAT | 20030513 | Altitude adjustment method and apparatus | 128/202.12 | 128/205.11 | Kroll; Mark W. |
| US 6560974 B2 | USPAT | 20030513 | Nitrogen-based refrigerator crisper | 62/78 | 62/179 | Kroll; Mark W. et al. |
| US 6560484 B1 | USPAT | 20030506 | Method and apparatus for electrically forcing cardiac output in an arrhythmia patient | 607/5 | 607/10; 607/4 | Kroll; Kai et al. |
| US 6549807 B1 | USPAT | 20030415 | Implantable cardioverter defibrillator having a rechargeable, fast-charging battery and method thereof | 607/34 | | Kroll; Mark W. |
| US 6549806 B1 | USPAT | 20030415 | Implantable dual site cardiac stimulation device having independent automatic capture capability | 607/27 | | Kroll; Mark W. |
| US 6539254 B1 | USPAT | 20030325 | Implantable ventricular cardioverter/defibrillator employing atrial pacing for preventing atrial fibrillation from ventricular cardioversion and defibrillation shocks | 607/4 | 607/14 | Kroll; Mark W. |
| US 6484056 B2 | USPAT | 20021119 | System and method of | 607/5 | 607/74 | Fisher; |

| | | | | | | |
|---------------|-------|----------|---|---------|------------------------|----------------------------|
| | | | generating a high efficiency biphasic defibrillation waveform for use in an implantable cardioverter/defibrillator (ICD) | | | Matthew G. et al. |
| US 6456876 B1 | USPAT | 20020924 | Dual-chamber implantable cardiac stimulation system and device with selectable arrhythmia termination electrode configurations and method | 607/4 | 607/63 | Kroll; Mark W. |
| US 6445950 B1 | USPAT | 20020903 | Implantable cardioverter/defibrillator employing shock delivery timing for preventing induced fibrillation | 607/4 | | Kroll; Mark W. et al. |
| US 6445949 B1 | USPAT | 20020903 | Implantable cardioversion device with a self-adjusting threshold for therapy selection | 607/4 | 600/518; 607/14 | Kroll; Mark W. |
| US 6442426 B1 | USPAT | 20020827 | Implantable ventricular cardioverter-defibrillator employing atrial pacing for preventing a trial fibrillation form ventricular cardioversion and defibrillation shocks | 607/4 | 607/14 | Kroll; Mark W. |
| US 6438426 B2 | USPAT | 20020820 | Temporary atrial cardioversion catheter | 607/125 | 607/122; 607/5 | Hofstad; Michael L. et al. |
| US 6411844 B1 | USPAT | 20020625 | Fast recovery sensor amplifier circuit for implantable medical device | 607/5 | 607/63 | Kroll; Mark W et al. |
| US 6408206 B1 | USPAT | 20020618 | Disposable external defibrillator | 607/5 | | Kroll; Mark W. et al. |
| US 6405922 B1 | USPAT | 20020618 | Keyboard signature security system | 235/379 | 235/383 | Kroll; Mark W. |
| US 6370234 B1 | USPAT | 20020409 | Public service answering point with | 379/45 | 379/265.01; 379/47; | Kroll; Mark W. |

| | | | | | | |
|---------------|-------|----------|---|---------|--|------------------------------|
| | | | automatic triage capability | | 379/49 | |
| US 6366808 B1 | USPAT | 20020402 | Implantable device and method for the electrical treatment of cancer | 607/2 | 607/72 | Schroeppel; Edward A. et al. |
| US 6350168 B1 | USPAT | 20020226 | Light selective sport garments | 441/111 | 2/108; 2/115; 2/67; 2/69; 441/106; 441/112 | Kroll; Mark W. et al. |
| US 6345200 B1 | USPAT | 20020205 | Implant guiding programmer for implantable cardioverter defibrillator | 607/8 | 128/923 | Mouchawar; Gabriel A. et al. |
| US 6327498 B1 | USPAT | 20011204 | Implantable stimulation lead for use with an ICD device having automatic capture pacing features | 607/4 | 600/509; 607/116; 607/122; 607/5 | Kroll; Mark W. |
| US 6314319 B1 | USPAT | 20011106 | Method and apparatus for temporarily electrically forcing cardiac output in a tachyarrhythmia patient | 607/5 | | Kroll; Kai et al. |
| US 6292694 B1 | USPAT | 20010918 | Implantable medical device having atrial tachyarrhythmia prevention therapy | 607/9 | | Schloss; Harold C. et al. |
| US 6287306 B1 | USPAT | 20010911 | Even temperature linear lesion ablation catheter | 606/41 | 606/42; 607/101; 607/99 | Kroll; Mark W. et al. |
| US 6282444 B1 | USPAT | 20010828 | Implantable device with electrical infection control | 607/3 | 607/120 | Kroll; Mark W. et al. |
| US 6233483 B1 | USPAT | 20010515 | System and method for generating a high efficiency biphasic defibrillation waveform for use in an implantable cardioverter/defibrillator (ICD). | 607/5 | 607/7; 607/74 | Causey, III; James D. et al. |
| US 6219582 B1 | USPAT | 20010417 | Temporary atrial cardioversion catheter | 607/122 | | Hofstad; Michael L. et al. |
| US 6208899 B1 | USPAT | 20010327 | Implantable cardioversion device | 607/9 | | Kroll; Mark W. |

| | | | | | | |
|---------------|-------|----------|--|------------|-------------------------------|-------------------------|
| | | | with automatic filter control | | | |
| US 6198249 B1 | USPAT | 20010306 | Thermal booster battery system | 320/104 | 320/103 | Kroll; Mark W. et al. |
| US 6185457 B1 | USPAT | 20010206 | Method and apparatus for electrically forcing cardiac output in an arrhythmia patient | 607/5 | | Kroll; Kai et al. |
| US 6169923 B1 | USPAT | 20010102 | Implantable cardioverter-defibrillator with automatic arrhythmia detection criteria adjustment | 607/5 | 600/515 | Kroll; Mark W. |
| US 6167306 A | USPAT | 20001226 | Method and apparatus for electrically forcing cardiac output in an arrhythmia patient | 607/5 | | Kroll; Kai et al. |
| US 6132426 A | USPAT | 20001017 | Temperature and current limited ablation catheter | 606/41 | 606/29; 606/34; 607/101 | Kroll; Mark W. |
| US 6115597 A | USPAT | 20000905 | Disposal emergency cellular phone | 455/404.1 | | Kroll; Braden W. et al. |
| US 6112118 A | USPAT | 20000829 | Implantable cardioverter defibrillator with slew rate limiting | 607/5 | | Kroll; Mark W. et al. |
| US 6101414 A | USPAT | 20000808 | Method and apparatus for antitachycardia pacing with an optimal coupling interval | 607/14 | 607/5 | Kroll; Mark W. |
| US 6093982 A | USPAT | 20000725 | High voltage output array switching system | 307/115 | 307/113; 307/125; 607/5 | Kroll; Mark W. |
| US 6062474 A | USPAT | 20000516 | ATM signature security system | 235/382 | 235/379; 902/3; 902/5 | Kroll; Mark William |
| US 6041255 A | USPAT | 20000321 | Disposable external defibrillator | 607/5 | | Kroll; Mark W. |
| US 6007395 A | USPAT | 19991228 | Sun tanning life vest | 441/106 | 441/112 | Kroll; Mark W. |
| US 5988161 A | USPAT | 19991123 | Altitude adjustment method and apparatus | 128/202.12 | 128/203.25; 128/205.11 | Kroll; Mark W. |
| US 5978703 A | USPAT | 19991102 | Method and apparatus for temporarily electrically forcing | 607/5 | | Kroll; Kai et al. |

| | | | | | | |
|--------------|-------|----------|---|--------|--------------------|---------------------------|
| | | | cardiac output in a tachyarrhythmia patient | | | |
| US 5957956 A | USPAT | 19990928 | Implantable cardioverter defibrillator having a smaller mass | 607/5 | | Kroll; Mark W. et al. |
| US 5944746 A | USPAT | 19990831 | ICD with continuous regular testing of defibrillation lead status | 607/27 | 607/8 | Kroll; Mark W. |
| US 5925068 A | USPAT | 19990720 | Method for determining an ICD replacment time | 607/29 | | Kroll; Mark W. |
| US 5925066 A | USPAT | 19990720 | Atrial arrythmia sensor with drug and electrical therapy control apparatus | 607/3 | 607/14 | Kroll; Kai et al. |
| US 5913877 A | USPAT | 19990622 | Implantable defibrillator system for generating a biphasic waveform with enhanced phase transition | 607/5 | 607/7 | Kroll; Mark W. et al. |
| US 5906633 A | USPAT | 19990525 | System for delivering rounded low pain therapeutic electrical waveforms to the heart | 607/5 | 128/908; 607/63 | Mouchawar; Gabriel et al. |
| US 5904705 A | USPAT | 19990518 | Automatic battery-maintaining implantable cardioverter defibrillator and method for use | 607/5 | 607/29 | Kroll; Mark W. et al. |
| US 5899923 A | USPAT | 19990504 | Automatic capacitor maintenance system for an implantable cardioverter defibrillator | 607/5 | | Kroll; Mark W. et al. |
| US 5871510 A | USPAT | 19990216 | Method and apparatus for temporarily electrically forcing cardiac output as a backup for tachycardia patients | 607/14 | | Kroll; Kai et al. |
| US 5871505 A | USPAT | 19990216 | Apparatus for generating biphasic waveforms in an implantable defibrillator | 607/5 | | Adams; Theodore P. et al. |
| US 5861006 A | USPAT | 19990119 | System for selectively reforming an ICD | 607/5 | | Kroll; Mark W. |
| US 5836973 A | USPAT | 19981117 | Staged energy concentration for an implantable biomedical | 607/5 | | Kroll; Mark W. |

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| | | | device | | | |
| US 5833712 A | USPAT | 19981110 | Implantable defibrillator system for generating a biphasic waveform | 607/7 | 607/5; 607/74 | Kroll; Mark W. et al. |
| US 5830236 A | USPAT | 19981103 | System for delivering low pain therapeutic electrical waveforms to the heart | 607/5 | | Mouchawar; Gabriel et al. |
| US 5827326 A | USPAT | 19981027 | Implantable cardioverter defibrillator having a smaller energy storage capacity | 607/5 | | Kroll; Mark W. et al. |
| US 5814075 A | USPAT | 19980929 | Method and apparatus for optimizing source allocation within an implantable cardioverter-defibrillator | 607/5 | 607/34 | Kroll; Mark W. |
| US 5782883 A | USPAT | 19980721 | Suboptimal output device to manage cardiac tachyarrhythmias | 607/14 | | Kroll; Kai et al. |
| US 5772690 A | USPAT | 19980630 | System having a surrogate defibrillation electrode for testing implantable cardioverter-defibrillators during implant | 607/7 | | Kroll; Mark W. |
| US 5772689 A | USPAT | 19980630 | Implantable cardioverter-defibrillator with apical shock delivery | 607/4 | | Kroll; Mark W. |
| US 5761019 A | USPAT | 19980602 | Medical current limiter | 361/58 | 128/908; 361/93.9 | Kroll; Mark W. |
| US 5749910 A | USPAT | 19980512 | Shield for implantable cardioverter defibrillator | 607/36 | | Brumwell; Dennis A. et al. |
| US 5741307 A | USPAT | 19980421 | Method for determining an ICD replacement time | 607/5 | 607/29 | Kroll; Mark W. |
| US 5741303 A | USPAT | 19980421 | Electrode back-charging pre-treatment system for an implantable cardioverter defibrillator | 607/5 | | Kroll; Mark W. et al. |
| US 5738105 A | USPAT | 19980414 | Method and apparatus | 600/510 | 600/374; | Kroll; Mark |

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| | | | for sensing R-waves using both near field and far field sensing simultaneously | | 600/515; 607/5 | W. |
| US 5735878 A | USPAT | 19980407 | Implantable defibrillator having multiple pathways | 607/5 | | Kroll; Mark W. et al. |
| US 5735876 A | USPAT | 19980407 | Electrical cardiac output forcing method and apparatus for an atrial defibrillator | 607/5 | | Kroll; Kai et al. |
| US 5733309 A | USPAT | 19980331 | Method and apparatus for capacitive switching output for implantable cardioverter defibrillator | 607/5 | | Kroll; Mark W. et al. |
| US 5718718 A | USPAT | 19980217 | Method and apparatus for polarity reversal of consecutive defibrillation countershocks having back biasing precharge pulses | 607/5 | | Kroll; Mark W. et al. |
| US 5713944 A | USPAT | 19980203 | Cardioversion-defibrillation catheter lead having selectively exposable outer conductors | 607/122 | | Kroll; Mark W. |
| US 5709709 A | USPAT | 19980120 | ICD with rate-responsive pacing | 607/4 | 607/122; 607/6; 607/8 | Kroll; Mark W. |
| US 5697953 A | USPAT | 19971216 | Implantable cardioverter defibrillator having a smaller displacement volume | 607/5 | | Kroll; Mark W. et al. |
| US 5690685 A | USPAT | 19971125 | Automatic battery-maintaining implantable cardioverter defibrillator and method for use | 607/5 | 607/29; 607/34 | Kroll; Mark W. et al. |
| US 5674248 A | USPAT | 19971007 | Staged energy concentration for an implantable biomedical device | 607/5 | | Kroll; Mark W. et al. |
| US 5662696 A | USPAT | 19970902 | One piece disposable threshold test can electrode for use with an implantable cardioverter | 607/116 | 607/36; 607/37; 607/8 | Kroll; Mark W. et al. |

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| | | | defibrillator system | | | |
| US 5662534 A | USPAT | 19970902 | Golf ball finding system | 473/353 | 473/372 | Kroll; Braden W. et al. |
| US 5658319 A | USPAT | 19970819 | Implantable cardioverter defibrillator having a high voltage capacitor | 607/7 | 607/5 | Kroll; Mark W. |
| US 5649974 A | USPAT | 19970722 | Low profile defibrillation catheter | 607/122 | 29/825 | Nelson; Randall S. et al. |
| US 5645573 A | USPAT | 19970708 | Optimal pulse defibrillator | 607/7 | | Kroll; Mark W. et al. |
| US 5645572 A | USPAT | 19970708 | Implantable cardioverter defibrillator with slew rate limiting | 607/5 | 128/901; 607/36 | Kroll; Mark W. et al. |
| US 5643323 A | USPAT | 19970701 | System and method inducing fibrillation using an implantable defibrillator | 607/2 | | Kroll; Mark W. et al. |
| US 5620469 A | USPAT | 19970415 | Stepped cardioversion system for an implantable cardioverter defibrillator | 607/7 | 607/5 | Kroll; Mark W. |
| US 5620464 A | USPAT | 19970415 | System and method for delivering multiple closely spaced defibrillation pulses | 607/5 | | Kroll; Mark W. et al. |
| US 5607460 A | USPAT | 19970304 | Physician interface expert system for programming implantable arrhythmia treatment devices | 607/30 | 607/59 | Kroll; Mark W. et al. |
| US 5591210 A | USPAT | 19970107 | Implantable defibrillation system and method for producing only short pulse waveforms | 607/5 | | Kroll; Mark W. et al. |
| US 5591209 A | USPAT | 19970107 | Implantable defibrillator system for generating an active biphasic waveform | 607/5 | 607/74 | Kroll; Mark W. |
| US 5549933 A | USPAT | 19960827 | Process for painting snow | 434/84 | 106/160.1; 427/136; 427/137; 427/212; 427/256; | Adams; Theodore P. et al. |

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| | | | | | 427/427.3; 427/427.4 | |
| US 5549643 A | USPAT | 19960827 | Optimal pulse defibrillator | 607/7 | | Kroll; Mark W. et al. |
| US 5540721 A | USPAT | 19960730 | Process and apparatus for defibrillation system with a small capacitor | 607/5 | 607/74 | Kroll; Mark W. |
| US 5534015 A | USPAT | 19960709 | Method and apparatus for generating biphasic waveforms in an implantable defibrillator | 607/7 | 607/5; 607/74 | Kroll; Mark W. et al. |
| US 5531782 A | USPAT | 19960702 | Implantable medical electrode with reduced number of conductors | 607/122 | | Kroll; Mark W. et al. |
| US 5531770 A | USPAT | 19960702 | Device and method for determining defibrillation thresholds | 607/8 | | Kroll; Mark W. et al. |
| US 5531766 A | USPAT | 19960702 | Implantable cardioverter defibrillator pulse generator kite-tail electrode system | 607/5 | 607/36; 607/9 | Kroll; Mark W. et al. |
| US 5531764 A | USPAT | 19960702 | Implantable defibrillator system and method having successive changeable defibrillation waveforms | 607/5 | 607/15 | Adams; Theodore P. et al. |
| US 5527346 A | USPAT | 19960618 | Implantable cardioverter defibrillator employing polymer thin film capacitors | 607/5 | | Kroll; Mark W. |
| US 5522853 A | USPAT | 19960604 | Method and apparatus for progressive recruitment of cardiac fibrillation | 607/5 | | Kroll; Mark W. |
| US 5514160 A | USPAT | 19960507 | Implantable defibrillator for producing a rectangular-shaped defibrillation waveform | 607/5 | | Kroll; Mark W. et al. |
| US 5507781 A | USPAT | 19960416 | Implantable defibrillator system with capacitor switching circuitry | 607/7 | 607/5; 607/74 | Kroll; Mark W. et al. |
| US 5458620 A | USPAT | 19951017 | Cardiac arrhythmia detection using interdependent multiple parameter settings | 607/5 | 128/925; 600/518 | Adams; Theodore P. et al. |

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| US 5454839 A | USPAT | 19951003 | Low profile defibrillation catheter | 607/123 | | Anderson; Kenneth M. et al. |
| US 5449377 A | USPAT | 19950912 | Overcharged final countershock for an implantable cardioverter defibrillator and method | 607/7 | | Adams; Theodore P. et al. |
| US 5447521 A | USPAT | 19950905 | Safety system for an implantable defibrillator | 607/5 | 600/547; 607/37; 607/6 | Anderson; Kenneth M. et al. |
| US 5441518 A | USPAT | 19950815 | Implantable cardioverter defibrillator system having independently controllable electrode discharge pathway | 607/5 | | Adams; Theodore P. et al. |
| US 5439482 A | USPAT | 19950808 | Prophylactic implantable cardioverter-defibrillator | 607/5 | 607/36 | Adams; Theodore P. et al. |
| US 5431687 A | USPAT | 19950711 | Impedance timed defibrillation system | 607/8 | | Kroll; Mark W. |
| US 5431686 A | USPAT | 19950711 | Method for optimal pulse defibrillation using an implantable defibrillator | 607/7 | 607/6 | Kroll; Mark W. et al. |
| US 5411526 A | USPAT | 19950502 | Improved implantable defibrillator system for producing true-voltage-pulse waveforms | 607/5 | | Kroll; Mark W. et al. |
| US 5407444 A | USPAT | 19950418 | Staged energy concentration for a defibrillator | 607/5 | 320/103; 320/166 | Kroll; Mark W. |
| US 5405363 A | USPAT | 19950411 | Implantable cardioverter defibrillator having a smaller displacement volume | 607/5 | 607/36 | Kroll; Mark W. et al. |
| US 5391186 A | USPAT | 19950221 | Method and apparatus for utilizing short tau capacitors in an implantable cardioverter defibrillator | 607/5 | | Kroll; Mark W. et al. |
| US 5391185 A | USPAT | 19950221 | Atrial cardioverter with ventricular protection | 607/4 | | Kroll; Mark W. |
| US 5383907 A | USPAT | 19950124 | System and method for delivering multiple closely spaced | 607/5 | | Kroll; Mark W. |

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| | | | defibrillation pulses | | | |
| US 5376103 A | USPAT | 19941227 | Electrode system for implantable defibrillator | 607/5 | | Anderson; Kenneth M. et al. |
| US 5366487 A | USPAT | 19941122 | Fibrillation and tachycardia detection | 607/5 | 600/518 | Adams; Theodore P. et al. |
| US 5366485 A | USPAT | 19941122 | Apparatus for defibrillation pretreatment of a heart | 607/5 | | Kroll; Mark W. et al. |
| US 5366484 A | USPAT | 19941122 | Short-pulse cardioversion system for an implantable cardioverter defibrillator | 607/5 | | Kroll; Mark W. |
| US 5351687 A | USPAT | 19941004 | Method and apparatus for non-invasively determining a patient's susceptibility to ventricular arrhythmias | 600/409 | | Kroll; Mark W. et al. |
| US 5342399 A | USPAT | 19940830 | Implantable defibrillator system having a small capacitance valve | 607/5 | | Kroll; Mark W. |
| US 5336245 A | USPAT | 19940809 | Storage interrogation apparatus for cardiac data | 607/32 | 128/904 | Adams Theodore P. et al. |
| US 5334219 A | USPAT | 19940802 | Method and apparatus for separate-capacitor cardioversion | 607/5 | | Kroll; Mark W. |
| US 5330509 A | USPAT | 19940719 | Method and apparatus for far-field tachycardia termination | 607/14 | | Kroll; Mark W. et al. |
| US 5325870 A | USPAT | 19940705 | Multiplexed defibrillation electrode apparatus | 607/122 | | Kroll; Mark W. et al. |
| US 5314448 A | USPAT | 19940524 | Process for defibrillation pretreatment of a heart | 607/5 | | Kroll; Mark W. et al. |
| US 5312443 A | USPAT | 19940517 | Arrhythmia-detection criteria process for a cardioverter/defibrillator | 607/5 | 128/925; 600/518 | Adams; Theodore P. et al. |
| US 5306291 A | USPAT | 19940426 | Optimal energy steering for an implantable defibrillator | 607/5 | | Kroll; Mark W. et al. |
| US 5300110 A | USPAT | 19940405 | Dirk-based epicardial defibrillation electrode | 607/130 | | Latterell; Scott T. et al. |

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| US 5265623 A | USPAT | 19931130 | Optimized field defibrillation catheter | 607/122 | | Kroll; Mark W. et al. |
| US 5258906 A | USPAT | 19931102 | System for remotely authorizing operation of a device and for automatically generating an invoice based on device usage | 705/2 | 379/106.02; 379/93.12; 705/34 | Kroll; Mark W. et al. |
| US 5257634 A | USPAT | 19931102 | Low impedance defibrillation catheter electrode | 607/122 | 607/128 | Kroll; Mark W. |
| US 5241960 A | USPAT | 19930907 | Defibrillator pulse generator | 607/5 | | Anderson; Kenneth M. et al. |
| US 5199429 A | USPAT | 19930406 | Implantable defibrillator system employing capacitor switching networks | 607/5 | | Kroll; Mark W. et al. |
| US 5188116 A | USPAT | 19930223 | Electrocardiographic method and device | 600/509 | 600/516; 600/517 | Pommrehn; Mark R. et al. |
| US 5117834 A | USPAT | 19920602 | Method and apparatus for non-invasively determining a patients susceptibility to ventricular arrhythmias | 600/518 | | Kroll; Mark W. et al. |
| US 4956877 A | USPAT | 19900911 | Optical fiber reflective signal modulation system | 398/170 | 398/141; 398/168; 398/169 | Kroll; Mark W. et al. |
| US 4947859 A | USPAT | 19900814 | Bio-acoustic signal sensing device | 600/528 | 381/355; 381/364; 600/586 | Brewer; James E. et al. |
| US 4890630 A | USPAT | 19900102 | Bio-electric noise cancellation system | 600/508 | 128/902; 128/905 | Kroll; Mark W. et al. |
| US 4879760 A | USPAT | 19891107 | Optical fiber transmissive signal modulation system | 398/168 | 340/870.29 | Kroll; Mark W. et al. |
| US 4832608 A | USPAT | 19890523 | Electrode belt adapter | 439/67 | 439/465; 600/390; 600/394 | Kroll; Mark W. |
| US 4811156 A | USPAT | 19890307 | Medical current limiter | 361/58 | 361/101; 600/509 | Kroll; Mark W. |
| US 4775018 A | USPAT | 19881004 | Load cell assembly | 177/134 | 177/211 | Kroll; William P. et al. |
| US 4769760 A | USPAT | 19880906 | Terrain biased dynamic | 702/79 | 324/76.39; | Kroll; Mark |

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| | | | multiple threshold synchronization method and apparatus | | 324/76.44; 327/41; 340/825.2; 375/317; 375/371; 600/525 | W. et al. |
| US 4763660 A | USPAT | 19880816 | Flexible and disposable electrode belt device | 600/391 | 439/77; 600/397; 607/149; 607/152 | Kroll; Mark W. et al. |
| US 4744369 A | USPAT | 19880517 | Medical current limiting circuit | 600/509 | 128/908; 323/312; 323/908; 327/313; 361/18; 361/58 | Kroll; Mark W. |
| US 4714121 A | USPAT | 19871222 | Wheel scale assembly | 177/134 | 177/164; 177/255 | Kroll; William P. et al. |
| US 4672977 A | USPAT | 19870616 | Lung sound cancellation method and apparatus | 600/528 | 600/390; 600/586 | Kroll; Mark W. |
| US 4672976 A | USPAT | 19870616 | Heart sound sensor | 600/528 | 381/364; 381/385; 600/586 | Kroll; Mark W. |